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APPLICATION NO.	FILING DAT	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/030,343	02/04/2002	2	Nigel Peter Smith	85116	5889
75	590 04/0	/09/2003			•
Welsh & Katz				EXAMINER	
120 South Riverside Plaza 22nd Floor				RAMANA, ANURADHA	
Chicago, IL 60	0606-3913				
000,12				ART UNIT	PAPER NUMBER
				3732	1
				DATE MAILED: 04/09/2003	/

Please find below and/or attached an Office communication concerning this application or proceeding.

4			
	Application No.	Applicant(s)	Col
	10/030,343	SMITH ET AL.	OVV
Office Action Summary	Examiner	Art Unit	
	Anu Ramana	3732	·····
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence addr	ess
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	within the statutory minimum of thirty (30) da ill apply and will expire SIX (6) MONTHS fron cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this comr ED (35 U.S.C. § 133).	nunication.
1) Responsive to communication(s) filed on 24 F	<u>ebruary 2003</u> .		
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under <i>l</i> Disposition of Claims			merits is
4)⊠ Claim(s) <u>2-4,6-14 and 21</u> is/are pending in the	application.		
4a) Of the above claim(s) is/are withdraw	• •		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>2-4, 6-14 and 21</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examiner			
10) The drawing(s) filed on is/are: a) accep			
Applicant may not request that any objection to the	*	• •	
11) \square The proposed drawing correction filed on $2/24/0$	-	roved by the Examiner	•
If approved, corrected drawings are required in rep 12) The oath or declaration is objected to by the Exa	•		
•	uriller.		
Priority under 35 U.S.C. §§ 119 and 120	majority condox 25 LLC C S 440/a	-) (d) o = (f)	
13) Acknowledgment is made of a claim for foreign	priority under 35 0.5.C. § 119(8	a)-(a) or (f).	
a) All b) Some * c) None of:	have been received		
1. Certified copies of the priority documents		ion Na	
2. Certified copies of the priority documents	• • • • • • • • • • • • • • • • • • • •		
3. Copies of the certified copies of the prioriapplication from the International Bur* See the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).		age
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e) (to a provisional ap	plication).
 a) ☐ The translation of the foreign language prov 15) ☐ Acknowledgment is made of a claim for domestic 	• •		
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s). Patent Application (PTO-1	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2-4, 6-14 and 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 21 is vague and indefinite as it is incomplete in that it lacks sufficient structure to support the functional recitation ("to create a pumping action." Note, the claim inferentially claims the chamber as well as a two-way path, which chamber and two-way path causes the pumping action.

Claim 12 recites the limitation "said chamber" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Allowable Subject Matter

Claims 2-4, 6-14 and 21 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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date of this final action.

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anu Ramana whose telephone number is (703) 306-4035. The examiner can normally be reached Monday through Friday between 8:30 am and 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached at (703) 308-2582. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-2708 for regular communications and (703) 308-2708 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

AR April 3, 2003

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

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